

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	"20070129553"	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2007/09/21 16:38
L2	2	2,2-dimethyl-1, 3-dioxalane-4-methanol	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2007/09/21 16:39
L3	4	I1 or I2	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2007/09/21 16:45
L4	0	2,2-dimethyl-1, 3-dioxalane-4-carboxaldehyde	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2007/09/21 16:39
L5	59	glyceraldehyde adj acetone	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2007/09/21 16:44
L6	3	I5 and tempo	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2007/09/21 16:44
L7	0	I4 and tempo	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2007/09/21 16:45
L8	3	I3 and tempo	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2007/09/21 16:48
L9	1085	(549/229, 546/216).ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2007/09/21 16:48

EAST Search History

L10	7	I9 and glyceraldehyde	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2007/09/21 16:50
L11	1	I10 and tempo	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2007/09/21 16:49
L12	23	tempo and glyceraldehyde	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2007/09/21 16:54
L13	533	TCCA	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2007/09/21 16:54
L14	92	dcdmh	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2007/09/21 16:54
L15	606	I13 or I14	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2007/09/21 16:55
L16	6	I15 and tempo	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2007/09/21 16:55

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NEWS	2	JUL 02	LMEDLINE coverage updated
NEWS	3	JUL 02	SCISEARCH enhanced with complete author names
NEWS	4	JUL 02	CHEMCATS accession numbers revised
NEWS	5	JUL 02	CA/CAPplus enhanced with utility model patents from China
NEWS	6	JUL 16	CAPplus enhanced with French and German abstracts
NEWS	7	JUL 18	CA/CAPplus patent coverage enhanced
NEWS	8	JUL 26	USPATFULL/USPAT2 enhanced with IPC reclassification
NEWS	9	JUL 30	USGENE now available on STN
NEWS	10	AUG 06	CAS REGISTRY enhanced with new experimental property tags
NEWS	11	AUG 06	BEILSTEIN updated with new compounds
NEWS	12	AUG 06	FSTA enhanced with new thesaurus edition
NEWS	13	AUG 13	CA/CAPplus enhanced with additional kind codes for granted patents
NEWS	14	AUG 20	CA/CAPplus enhanced with CAS indexing in pre-1907 records
NEWS	15	AUG 27	Full-text patent databases enhanced with predefined patent family display formats from INPADOCDB
NEWS	16	AUG 27	USPATOLD now available on STN
NEWS	17	AUG 28	CAS REGISTRY enhanced with additional experimental spectral property data
NEWS	18	SEP 07	STN AnaVist, Version 2.0, now available with Derwent World Patents Index
NEWS	19	SEP 13	FORIS renamed to SOFIS
NEWS	20	SEP 13	INPADOCDB enhanced with monthly SDI frequency
NEWS	21	SEP 17	CA/CAPplus enhanced with printed CA page images from 1967-1998
NEWS	22	SEP 17	CAPplus coverage extended to include traditional medicine patents
NEWS EXPRESS	19	SEPTEMBER 2007:	CURRENT WINDOWS VERSION IS V8.2, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 19 SEPTEMBER 2007.
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* * * * * STN Columbus * * * * *

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=> fil caplus

COST IN U.S. DOLLARS

SINCE FILE

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ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'CAPLUS' ENTERED AT 16:02:34 ON 21 SEP 2007

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FILE COVERS 1907 - 21 Sep 2007 VOL 147 ISS 14

FILE LAST UPDATED: 20 Sep 2007 (20070920/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/infopolicy.html>

=> e 2,2-dimethyl-1,3-dioxolane-4-carboxaldehyde

E1	1	1ZZ1R/BI
E2	9298827	2/BI
E3	0	--> 2,2-DIMETHYL-1,3-DIOXOLANE-4-CARBOXALDEHYDE/BI
E4	2402530	20/BI
E5	12	20-10-0/BI
E6	1	20-10-1/BI
E7	3	20-10-2/BI
E8	3	20-10-3/BI
E9	4	20-10-4/BI
E10	8	20-10-5/BI
E11	4	20-10-6/BI
E12	1	20-10-7/BI

=> e 2,2-dimethyl-1,3-dioxolane-4-carboxaldehyde/crn

REGISTRY INITIATED

Substance data EXPAND from CAS REGISTRY in progress...

E1	1	199999-61-6/CRN
E2	1	199999-85-4/CRN
E3	0	--> 2,2-DIMETHYL-1,3-DIOXOLANE-4-CARBOXALDEHYDE/CRN
E4	1	200-22-6/CRN
E5	2	200-23-7/CRN
E6	1	200-25-9/CRN
E7	1	200-42-0/CRN
E8	1	200-61-3/CRN
E9	2	200-71-5/CRN
E10	1	200-75-9/CRN
E11	1	200-77-1/CRN
E12	1	200-86-2/CRN

=> e 2,2-dimethyl-1,3-dioxolane-4-carboxaldehyde/cn
REGISTRY INITIATED
Substance data EXPAND from CAS REGISTRY in progress...

E1	1	2,2-DIMETHYL-1,3-DIOXOLANE-4-ACETALDEHYDE/CN
E2	1	2,2-DIMETHYL-1,3-DIOXOLANE-4-CARBONYL CHLORIDE/CN
E3	1 -->	2,2-DIMETHYL-1,3-DIOXOLANE-4-CARBOXALDEHYDE/CN
E4	1	2,2-DIMETHYL-1,3-DIOXOLANE-4-CARBOXYLIC ACID/CN
E5	1	2,2-DIMETHYL-1,3-DIOXOLANE-4-CARBOXYLIC ACID POTASSIUM SALT/ CN
E6	1	2,2-DIMETHYL-1,3-DIOXOLANE-4-METHANAMINE/CN
E7	1	2,2-DIMETHYL-1,3-DIOXOLANE-4-METHANOL/CN
E8	1	2,2-DIMETHYL-1,3-DIOXOLANE-4-METHANOL (6-ISOCYANATOHEXYL) CAR BAMATE/CN
E9	1	2,2-DIMETHYL-1,3-DIOXOLANE-4-METHANOL MONOESTER WITH DHA 22/ CN
E10	1	2,2-DIMETHYL-1,3-DIOXOLANE-4-METHANOL MONOESTER WITH DHA 45/ CN
E11	1	2,2-DIMETHYL-1,3-DIOXOLANE-4-METHANOL N-(7-CHLORO-4-QUINOLYL)ANTHRANILATE/CN
E12	1	2,2-DIMETHYL-1,3-DIOXOLANE-4-METHANOL-POLYETHYLENE-POLYPROPY LENE GLYCOL GLYCEROL ETHER (3:1)-POLYMETHYLENEPOLYPHENYLENE ISOCYANATE COPOLYMER/CN

=> s e3
REGISTRY INITIATED
Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

L2 116 L1

=> s l2 and (preparation and tempo)
1546114 PREPARATION
80455 PREPARATIONS
1622435 PREPARATION
(PREPARATION OR PREPARATIONS)
2844349 PREPN
210593 PREPNS
3002977 PREPN
(PREPN OR PREPNS)
3849942 PREPARATION
(PREPARATION OR PREPN)
4228 TEMPO
52 TEMPOS
5 TEMPI
3 TEMPIS
4272 TEMPO
(TEMPO OR TEMPOS OR TEMPI OR TEMPIS)

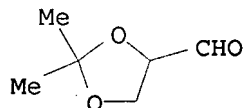
L3 2 L2 AND (PREPARATION AND TEMPO)

=> d ibib abs hitstr 1-2

L3 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2005:729816 CAPLUS

DOCUMENT NUMBER: 143:349015
 TITLE: Technical Production of Aldehydes by Continuous Bleach Oxidation of Alcohols Catalyzed by 4-Hydroxy-TEMPO
 AUTHOR(S): Fritz-Langhals, Elke
 CORPORATE SOURCE: Consortium fuer Elektrochemische Industrie GmbH, Wacker-Chemie GmbH, Munich, D-81379, Germany
 SOURCE: Organic Process Research & Development (2005), 9(5), 577-582
 CODEN: OPRDFK; ISSN: 1083-6160
 PUBLISHER: American Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 143:349015

AB Aldehydes were easily prepared from the corresponding alcs. in good to excellent yields by oxidation with tech. bleach and catalytic amts. of 4-hydroxy-2,2,6,6-tetramethyl-piperidine-1-oxyl (4-hydroxy TEMPO, HOT). Whereas the well-known batch process performed on laboratory scale is not suitable for the tech. synthesis especially of activated β -substituted aldehydes, this transformation can be performed continuously in a simple tube reactor. This layout meets all requirements necessary for the process, i.e., turbulent mixing of the biphasic mixture, removal of heat, short contact times, and high output. Thus, a single tube of 3 mm diameter renders about 60 mol of aldehyde per day.
 IT 5736-03-8P, 2,3-O-Isopropylidenglyceraldehyde
 RL: IMF (Industrial manufacture); PREP (Preparation)
 (high yield tech. production of aldehydes by continuous oxidation of alcs. with bleach catalyzed by 4-hydroxy-TEMPO in tube reactor)
 RN 5736-03-8 CAPLUS
 CN 1,3-Dioxolane-4-carboxaldehyde, 2,2-dimethyl- (CA INDEX NAME)



REFERENCE COUNT: 36 THERE ARE 36 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2005:395296 CAPLUS
 DOCUMENT NUMBER: 142:430492
 TITLE: Process for the preparation of glyceraldehyde acetonide from solketal via oxidation reaction
 INVENTOR(S): Quaedflieg, Peter Jan Leonard Mario; Alsters, Paulus Lambertus; Pojarliev, Peter; Jary, Walther Gunther
 PATENT ASSIGNEE(S): DSM IP Assets B.V., Neth.
 SOURCE: PCT Int. Appl., 27 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005040149	A1	20050506	WO 2004-EP12064	20041025
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,				

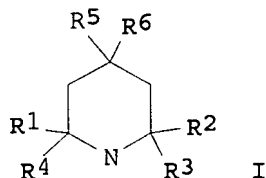
NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
 TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
 RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
 AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
 EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE,
 SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,
 SN, TD, TG

CA 2543303	A1	20050506	CA 2004-2543303	20041025
EP 1678158	A1	20060712	EP 2004-817268	20041025
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
CN 1875014	A	20061206	CN 2004-80031932	20041025
JP 2007522097	T	20070809	JP 2006-537158	20041025
IN 2006DN02387	A	20070803	IN 2006-DN2387	20060428
US 2007129553	A1	20070607	US 2006-576447	20060714

PRIORITY APPLN. INFO.:

EP 2003-78392 A 20031028
 WO 2004-EP12064 W 20041025

OTHER SOURCE(S): CASREACT 142:430492; MARPAT 142:430492
 GI



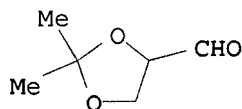
AB The invention relates to a process for the prepn. of
 glyceraldehyde acetonide I, wherein R1-R4 are independently alkyl with 1
 to 6 C-atoms and wherein R5 and R6 either both stand for H or an alkoxy
 group with 1 to 6 C-atoms or one stands for H and the other stands for an
 alkoxy group with 1 to 6 C-atoms, an alkylcarbonyloxy group with 1 to 6
 C-atoms, an arylcarbonyloxy group with the carbonyloxy group having 1 to 6
 C-atoms or an alkylcarbonylamino group with 1 to 6 C-atoms; or wherein R5
 and R6 together stand for ketal groups, by oxidation of 2,2-dimethyl-1,3-
 dioxolane-4-methanol by an oxidizing agent, wherein the
 2,2-dimethyl-1,3-dioxolane-4-methanol is oxidized by an organic N-chloro
 compound in the presence of an inert base and TEMPO or a
 TEMPO-derivative. In one embodiment of the invention enantiomerically
 enriched glyceraldehyde acetonide is prepared from the corresponding
 enantiomerically enriched 2,2-dimethyl-1,3-dioxolane-4-methanol.
 Preferably, the organic N-chloro compound is trichloroisocyanuric acid or
 dichlorodimethyl hydantoin. Preferably, the inert base is sodium acetate
 or sodium bicarbonate. Thus, oxidation of (R)-solketal with
 trichloroisocyanuric acid in presence of TEMPO in acetone gave
 (S)-glyceraldehyde acetonide in 80% yield.

IT 5736-03-8P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (process for the prepn. of glyceraldehyde acetonide from
 solketal via oxidation reaction)

RN 5736-03-8 CAPLUS

CN 1,3-Dioxolane-4-carboxaldehyde, 2,2-dimethyl- (CA INDEX NAME)



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> fil stng

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

15.97

24.36

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-1.56

-1.56

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